**Homework 31 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Complex Exponents Period:\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Failure to show work and write in complete sentences on all problems will result in a LaSalle.**

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| 1. For all nonzero values of a, b, and c, the expression is equivalent to which of the following?   1. b. c. d. | | | 2. |
| 3. Simplify: | 4. Simplify: | 5. Simplify: | |
| 6. Describe and correct the error.  = = =  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
| 7. Simplify: | 8. Simplify: | 9. Simplify: | |

**Mixed Review**

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| 1) Find the measure of the indicated angle. | 2) An NBA/NCAA - regulation basketball court dimension is 94' long by 50' wide. What is the area of the court, in square feet? | 3) Find the area and perimeter of the triangle shown below. |
| 4) Find the sum of the solutions to the quadratic equation:     1. 3.5 2. -4.5 3. -7 4. -9 | 5) Simplify the following: | 6) What is the circumference of a circle whose area is 9 in2 ? |
| 7) McOsker flooring company sells tiles that are each 1-foot squares. What is the minimum number of these tiles needed to cover an entire 10-foot by 12-foot room and the adjoining 10-foot by 3-foot hallway? | 8) Find the values of *n* that satisfy the inequality: | 9) Find the zeros of the function: |
| 10) In the standard (x, y) coordinate plane, where does the line y = –5x + 2 cross the x-axis? | 11) In the standard (x, y) coordinate plane, where does the line y = x2 + 4x + 3 cross the x-axis? | 12) The circumference of a circle is 10 inches. What is the area of that circle? |